

COMMONWEALTH of VIRGINIA

BOARD OF COMMISSIONERS

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January 30, 2009

Charles Badger, Director Virginia Department of Rail and Public Transportation 1313 East Main Street, Suite 300

Richmond, VA 23219

RE: Rail Enhancement Funding Application Norfolk International Terminals Central Rail Yard Expansion

Dear Charles,

Please accept the enclosed Rail Enhancement Funding application package submitted on behalf of the Virginia Port Authority (VPA). This application is seeking funding for Phase 2 construction for the Norfolk International Terminals (NIT) Central Rail Yard Expansion.

The project is a two-phase, \$43,621,000 rail yard expansion project to be completed over a four year period. The project will expand the Terminal's rail yard to a total capacity of 37,000 track feet through construction of an additional 24,000 feet of railroad track, ties and ballast, several switches, heavy-duty pavement in the rail yard area, container handling areas, and associated civil site utility and electrical infrastructure.

These improvements will enable the NIT to increase the annual volume of containers moved by rail from 250,000 TEUs to 500,000 TEUs. This will facilitate the movement of larger volumes of cargo by rail instead of trucks, thus decreasing congestion on local and state highways. The project will also decrease train at-grade rail crossings at Hampton/ Terminal Blvd, increase "within fenceline" security of containers, decrease noise levels for local area residents, and increase the Port's competitiveness while supporting several VTrans2025 and Virginia State Rail Plan goals.

VPA, through revenue generated from Virginia International Terminals (VIT) terminal operations (as opposed to Commonwealth Port Funds provided by the Commonwealth of Virginia), will provide a 60% match totaling \$26,146,000 to fund Phase 1 design and construction, as well as equipment lease and/or acquisition. Phase 1 construction was completed in November 2008. The requested Rail Enhancement Funds amount to 40% or \$17,475,000, and are for Phase 2 construction. We plan to award the Phase 2 construction in August 2009, and have construction completed by October, 2010.

Jerry A. Bridges
Executive Director



January 30, 2009 Page 2

Please let us know if any additional information is needed, or if a briefing would facilitate a better understanding of the NIT Central Rail Yard Expansion project, and the importance of this Grant application to its ultimate success.

Sincerely,

Kevin P. Abt, P.E. Chief Engineer

Enclosures





Rail Enhancement Fund Project Application Form



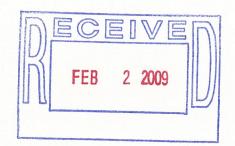
Date: 01/30/2009

A. Name of Applicant (Name and Address)

Virginia Port Authority 600 World Trade Center Norfolk, VA 23510

Applicant type:

- __ Passenger Railroad
- __ Freight Railroad
- __ Locality
- __ Business
- _x_ Other (Regional Agency)



B. Contact Information:

Responsible Person/Title: Jeff Florin/Deputy Executive Director, Operations, COO

Telephone: 757-683-2150; Fax: 757-683-2151; Email: jflorin@ portofvirginia.com

Project Manager/Title: Kevin Abt/Chief Engineer

Telephone: 757-683-2139; Fax: 757-683-2151; Email: kabt@portofvirginia.com

C. Project Title: Norfolk International Terminals Central Rail Yard Expansion

D. Project Location: (City/County, Rail line, Railroad Mile Post, attach map)

Norfolk International Terminals 7737 Hampton Blvd. Norfolk, VA 23505

- E. Owner of Property/Right-of-Way/Facility/Personal Property: Virginia Port Authority
- F. Responsible Party for Continuous Maintenance of Project: Virginia Port Authority

G. Project Information:

1) Description of Project:

The **NIT Central Rail Yard Expansion** (Figure 1) is a two-phase, \$40 million rail yard expansion project to be completed over a four year period. The project will expand the Terminal's rail yard to a total capacity of 37,000 track feet through construction of an additional 24,000 feet of railroad track, ties and ballast, several switches, heavy-duty pavement in the rail yard area, container handling areas, and associated civil site utility and electrical infrastructure.

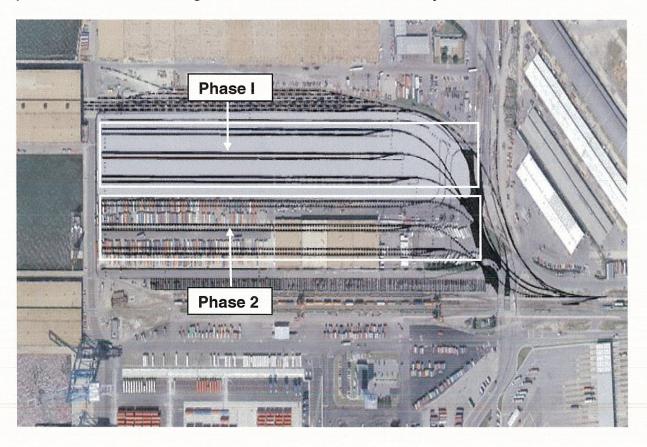


Figure 1: NIT Central Rail Yard Expansion



Figure 2: NIT and Surrounding Norfolk Area

2) Project Objective:

Over the past 10 years, the total volume of container traffic in the Port of Virginia marine terminals has increased at an annual rate of 8%. In CY 2008, more than 2.1 million twenty-foot equivalent units (TEUs) were handled by the Port. With the scheduled opening of the Heartland Corridor in early 2010, the recent clearance of the CSX double stack line to Atlanta, and the planned addition of the Third Lock in the Panama Canal by 2014, this trend is expected to continue to grow at an annual rate of 4.3% (as discussed in Virginia State Rail Plan). To meet the increased volume of container traffic, the Port has developed a multi-faceted strategy to increase the capacity and efficiency of its terminals. This includes replacing obsolete and aged infrastructure through a series of projects that will increase the number of ship berths, expand the container yards, and increase rail capacity.

The Port of Virginia moves a higher percentage of containers by rail than any other east coast port. Rail volume remains the fastest growing sector of the Port's volume of business. As the only Port terminal with "on-dock" rail service, the Norfolk International Terminals (NIT) handle the vast majority of the intermodal container traffic. However, intermodal expansion is limited by the size and configuration of the existing rail yard, and has reached maximum capacity.

These rail improvements will revolutionize Port rail operations, by eliminating less efficient hustlers and rubber-tired gantry cranes and converting to shuttle carriers and top picks. This will significantly increase the velocity of rail operations and achieve efficiencies similar to those realized when the Port implemented straddle carriers for handling vessel operations. The shuttle carrier/top pick operation allows each piece of equipment to operate decoupled and at maximum efficiency without the need to wait for another piece of equipment to hand off the containers.

The project will enable the NIT to increase the annual volume of containers moved by rail from 250,000 TEUs to 500,000 TEUs. This will facilitate the movement of larger volumes of cargo by rail instead of trucks, thus decreasing congestion on local and state highways. The project will also decrease train at-grade rail crossings at Hampton/ Terminal Blvd, increase "within fenceline" security of containers, decrease noise levels for local area residents (Figure 2), and increase the Port's competitiveness while supporting several VTrans2035 and Virginia State Rail Plan goals.

3) Relationship to Other Projects under Development by Applicant or Previously Funded by this Program:

The following additional projects (Figure 3), funded by the Virginia Port Authority (VPA) in large part through Virginia International Terminals (VIT) terminal operations revenue, are related to NIT terminal and rail service expansion, and have been, or are nearing, completion:

1. **NIT South Renovation.** This project entails the complete renovation of NIT South. The entire project area comprises approximately 150 acres and is being completed in stages so as not to interfere with cargo operations. Work began in 2004, and includes renovation of the entire container yard, construction of a 4230 ft wharf, installation of eight Suez-Class cranes, purchase of 70 straddle carriers, as well as utility upgrades and pavement improvements. Approximate construction cost: \$280 million.

- 2. **NIT Shuttle Carrier Road.** This project, which will facilitate movement of containers from the NIT North Wharf to the new Central Rail Yard, includes the construction of approximately 3,000 linear feet of heavy duty shuttle carrier pavement along Bulkhead Avenue from Third Street to Lagoon Avenue. Construction activities include erosion and sediment control, site demolition, earthwork, drainage, water distribution, asphalt pavement, concrete pavement, waterfront structural improvements, rail crossings, site lighting, electrical duct bank, utilities, traffic control, construction phasing, and tie-in with existing waterfront features, drainage lines and rail yard facilities. Approximate construction cost: \$8 million.
- 3. Norfolk Portsmouth Belt Line (NPBL) Railroad Acquisition and Repair. This project (Figure 2) involves the acquisition of 33.5 acres of property, and repair/upgrade of the Norfolk Portsmouth Belt Line freight rail yard, rail infrastructure, and associated railroad track. This project will facilitate a more efficient assembling and movement of train segments on the Norfolk International Terminals (NIT) by adding another 16,632 track feet of rail, including a train segment staging area. The estimated costs are \$5,000,000 for property acquisition (acreage and existing track) and \$3,500,000 for repair/upgrade of existing railroad infrastructure.
- 4. Commonwealth Railway Mainline Safety Relocation Project (CRMSRP). VPA is the lead state agency for this project, which is being partially funded with \$25.8 million in FY 07-09 Rail Enhancement Funds. This \$60 million undertaking will relocate the existing Commonwealth Railway (CWRY) mainline track to the medians of I-664 & the Western Freeway (Route 164), thus eliminating 14 at-grade rail crossings in Portsmouth & Chesapeake. The CRMSRP is part of the \$309 million Heartland Corridor, a multi-state, federally funded rail transportation improvement project of national significance that will improve overall rail access between the Port of Virginia & the markets of the Midwestern United States.



Figure 3: Norfolk International Terminals

4) Describe the Public Benefit of Project. Identify significant types of benefits and beneficiaries from this project. (See Attachment A)

The benefits of the NIT Central Rail Yard Expansion Project include:

- a. Highway congestion relief by reducing the number of container truck movements along the State road network by over 600 trucks per day (a 15% reduction from today's level).
- b. Eliminating over one-half (approximately 10/day) of the movements of trains along the Hampton/Terminal Blvd at grade crossing immediately outside the Terminal (i.e., more on-terminal space will be available for "building/staging" trains).
- c. Improved security of containers through increased "within fenceline" staging of rail cars.
- d. Decreased noise levels by over 30% for residents adjacent to present rail yard (i.e., loading/unloading of trains will be moved from an area immediately adjacent to a large residential area to over ½ mile away).
- e. Enhanced Port competitiveness through improvements to on-terminal container handling efficiency and decreased off-terminal container shipping costs.

This project supports the following VTrans2025 goals:

- a. Provide a safe, secure and integrated transportation system that reflects different needs of the Commonwealth by decreasing Hampton/Terminal Blvd at-grade crossing movements by over 50%, and moving more containers by rail vice truck (250,000 TEUs/year).
- b. Facilitate the efficient movement of people and goods and expand choices and improve interconnectivity of all transportation modes by increasing the efficiency of railcar loading operations and decreasing the number of truck movements along Commonwealth highways (>600/day or15% reduction from today's levels).
- c. Improve Virginia's economic vitality and provide access to economic opportunities for all Virginians *by increasing Port competitiveness*.
- d. Improve the quality of life for Virginians and the coordination of transportation, land use and economic development planning activities by reducing congestion on Commonwealth highways.

The project also supports the following Virginia State Rail Plan goals:

- a. Promote safety and security by reducing the frequency of crossings at the Hampton/Terminal Blvd at-grade crossing and providing "within fenceline" staging of trains.
- b. Improve system capacity, reliability and speed by facilitating increased container throughput at NIT and mitigating highway congestion.
- c. Improve intermodalism, connectivity and mobility by increasing the rail share of intermodal traffic at NIT, and enabling an additional main line rail carrier, CSX, to have access to NIT.

- d. Improve Virginia's economic competitiveness and quality of life by reducing the cost of handling containers at NIT, reducing congestion on roads, and reducing air pollution by reducing truck traffic from Port operations by 15% over today's levels.
- e. Support Virginia DRPT Public-Private partnership efforts and program delivery by ensuring the project provides an excellent return on investment in terms of enhance productivity, air quality improvement and reduced congestion.
- 5) Attachment A Project Data Information Form Must be completed by Applicant and submitted with this application.

H.	Type of I	Project:				
	1) New Construction _x_ Rehabilitation Study					
2) _x_ Rail Infrastructure _x_ Rail Facility/StationEquipment/Rolling StockSignals/Communication Equipment						
	3)	Other				
I. Application Scope of Work Covers:						
	x E	ntire Project A Phase of a Multi-Phase Project Completion Phase				

J. Project Budget Summary:

Preliminary Service, Engineering, or	
Feasibility Study	Complete
Environmental Evaluation	Complete
Design Engineering (Phase 1)	\$746,000
Design Engineering (Phase 2)	\$700,000
Right of Way Acquisition	N/A
Construction (Phase 1)	\$17,500,000
Construction (Phase 2)	\$17,475,000
Construction Management	Included Above
Lease/Acquisition of Equipment	\$7,200,000
Public Involvement (if applicable)	N/A
Other	N/A
Subtotal Project Budget (Phase 1 & 2)	\$43,621,000
Total Project Budget	\$43,621,000

K. Attach detailed budget and schedule information. If the project is for final design, construction or procurement; then plans, specifications and reports to a preliminary engineering

level (approximately 30%) should be provided to support the project cost and major features (if applicable). A sample budget and schedule is included in Appendix D.

Fiscal Year	Project Design/Construction Costs	Rail Enhancement Funds
2007	\$ 746,000	\$ 0
2008	\$ 17,500,000	\$ 0
2009	4,300,000	\$ 0
2010	\$ 17,475,000	\$ 17,475,000 (Phase 2 Construction)
2011	\$ 3,600,000	\$ 0

L. Rail Enhancement Funds Requested in this Application: \$17,745,000

Maximum 70% of Total Project Budget. Do not include any previous allocations or future phases.

M. Local Match Provided by Applicant: \$26,146,000

At least a minimum 30% of Total Project Budget

The Virginia Port Authority (VPA) will provide a 60% match for this project through terminal revenue funds from Virginia International Terminals (VIT) operations (as opposed to Commonwealth Port Funds provided by the Commonwealth of Virginia). VPA will fund Phase 1 Design and Construction, as well as Equipment Lease/Acquisition. Requested Rail Enhancement Funds (40%) are for Phase 2 Design and Construction.

If Overmatch, Provide Percentage: 60%

- 1) Match Breakdown by Source (Including any in-kind match)
 - a. Provider of Local Match: Virginia International Terminals
 - b. Status (confirmed/anticipated): Confirmed
 - c. Attach justification for value of in-kind match.
- 2) Other Funding Sources Beyond Match Requirement

a. Provider of Overmatch	
b. Status (confirmed/anticipated)	

N. Project implementation schedule (based in months). List major milestones of the **project**, including environmental review and public involvement points if applicable.

Phase 1 Design:

Complete (April 2007)

Phase 1 Construction Award:

July, 2007

Phase 1 Construction Completion:

September, 2008

Phase 2 Design Award:

Done

Phase 2 Design Completion:

Done

Phase 2 Construction Award:

August, 2009

Phase 2 Construction Completion:

October, 2010

O. Statement of how this project promotes or does not preclude dual/multi-access use.

All rail lines will have access to the NIT Central Rail Yard, although the main line to NIT is owned by Norfolk Southern. Other rail lines have to pay a switching fee to Norfolk Southern in order to use the main line. CSX recently obtained double stack clearance to Atlanta, and has requested to access NIT via Norfolk Southern. However, as previously noted, the current NIT rail yard is at maximum capacity. Thus, without this project, CSX may continue to be precluded from accessing NIT.

P. List additional users of rail line, facility, and/or equipment.

Norfolk Southern Railroad

Q. Identify any possible environmental or other issues/concerns within the scope of this project.

The State environmental impact report for the project was completed in April, 2007. Per the report, the project will have minimal, if any, long term negative effects on the natural and physical resources at NIT. There will be no permanent negative impact on air or water quality, and the project will not consume any significant areas of land, water, or aquatic habitats.

Required Attachments:

Application is not complete without items 1-5 completed by the Applicant and submitted with the Application.

- 1. Attachment A Project Data Information Form (Provided)
- 2. Attachment B Application Checklist (Provided)
- 3. Detailed cost, budget and schedule. Include preliminary engineering to 30% report, if applicable (Sample in Appendix D)
- 4. Certification of Match/% of Match/Documentation of Source of Match Including Defined Match Source (To be provided by Applicant)
- 5. Certification of Additive Investment (To be provided by Applicant)
- 6. Statement from the Applicant/Owner of the facility that the SWAM participation goals will be achieved by the project.
- 7. Statement from the owner of the facility that acknowledges the Commonwealth will have a public interest in the facilities, materials, equipment and improvements funded or impacted by this project (To be provided by Applicant/Owner)

Application and Attachment Certification

To the best of my knowledge all information contained in this application and its attachments is true. The information provided to the Virginia Department of Rail and Public Transportation (DRPT) is subject to full disclosure except where protected by Virginia Code. Any additional documentation related to this application will be provided to DRPT upon request.

Mulle CHIEF ENGINGER Date: 1-30-09

Authorized Signature and Title:



Rail Enhancement Fund Project Application Completed Application Submission Information

One signed original, twelve copies, and an electronic copy in pdf format of the completed application and required documentation must be mailed under applicant cover to:

Director Virginia Department of Rail and Public Transportation 1313 East Main Street, Suite 300 Richmond, VA 23219

Certification of Match

The Virginia Port Authority (VPA) has applied to the Commonwealth of Virginia for Department of Rail and Public Transportation Rail Enhancement Funds in the amount of \$17,475,000 to assist in funding the project to expand the Norfolk International Terminals Central Rail Yard. The percentage of Rail Enhancement Funding requested is 30% of the total estimated project cost.

The total estimated cost for the project is \$43,621,000. As an attachment to the funding application, this document certifies that VPA will provide a 60% funding match in the amount of \$26,146,000 from revenue generated from Virginia International Terminals (VIT) terminal operations (as opposed to Commonwealth Port Funds provided by the Commonwealth of Virginia), which constitutes the remaining balance of the estimated cost.

Kevin Abt

Chief Engineer

Virginia Port Authority

Certification of Additive Investment

This certifies that the Commonwealth of Virginia Rail Enhancement Funds requested in this application will add significant capital improvements to the state's rail infrastructure, and result in public benefits to the Commonwealth that are greater than the actual amount of public funds invested.

Kevin Abt

Chief Engineer

Virginia Port Authority

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Statement from the Applicant SWAM Participation Goals to be Achieved by the Project

This is to certify that the Virginia Port Authority will work to achieve the Small, Women-owned, and Minority-owned (SWaM) participation goals in the project for which these Rail Enhancement Funds are requested, as directed by Executive Order 33 (2006) from the Governor of the Commonwealth of Virginia.

Kevin Abt

Chief Engineer

Virginia Port Authority

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Statement from the Applicant Acknowledgement of Commonwealth Public Interest

This statement from the Virginia Port Authority acknowledges that the Commonwealth of Virginia will have a public interest in the facilities, materials, equipment, and improvements funded or impacted by this project.

Kevin Abt

Chief Engineer

Virginia Port Authority

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Rail Enhancement Fund Project Application

Internal Use

DRPT Tracking #

Attachment A Project Data Information Form

Date: 01/30/2009

Name of Applicant and Project

Virginia Port Authority Norfolk International Terminals Central Rail Yard Expansion

General Instructions: Please complete the following forms that apply to the project application.

- For Freight Service projects, complete forms A1, A2 and A5
- For Intercity/Amtrak passenger projects, complete forms A1, A3 and A5
- For Commuter/VRE passenger projects, complete forms A1, A4 and A5
- For projects that involve benefits to both freight and passenger projects, form A1 and forms A2-A4 that apply must be completed. For each completed form A2-A4, a form A5 must be completed for each category for projects resulting in multiple project benefits.

Terms:

Project Cost and Construction Period: Form A1 shall be completed with total project cost by year of expenditure with total DRPT cost identified by year of expenditure. This section must be completed for all project applications.

Demand Characteristics: This category of information relates to the additional demand for rail service (including freight and passenger) due to the project. This additional demand must be over and above baseline conditions that currently exist. The specific data to enter here defines initial demand, steady state demand, and the years until steady state demand is achieved.

Steady State Demand: This term refers to the point at which the project benefits/demand have reached a long-term, sustainable level.

Project Impact on Travel Distance: This category of information includes the distance that would be traveled by vehicle or train. All distances should be limited to miles within Virginia. The distance should relate directly to the project-impacted area.

Demand Characteristics for a 15-year Performance Period: This term refers to the project output by performance year, which will be utilized to determine the public benefits and to determine the performance requirements over the 15-year Performance Period of the Grant Agreement.

Attachment A Form A1 – Project Cost and Construction Period

First Construction Year: FY 2007

Last Construction Year: FY 2011

Fiscal Year	Total Project COST	Total DRPT COST
2007	\$ 746,000	0
2008	\$17,500,000	0
2009	\$ 4,300,000	0
2010	\$17,475,000	\$ 17,475,000
2011	\$ 3,600,000	0
Total	\$ 43,621,000	\$ 17,475,000

Use Form A-5 to provide demand characteristics for the 15-Year Performance Period.

Attachment A Form A2 – Freight Service

S	CATEGORY	UNITS	VALUE
Demand Characteristics	Steady state demand – diversion of freight to rail (from trucks)	Carloads/Year	62,500
	First year of diversion	Carloads/Year	15,625
	Number of years until steady state	Number of Years	4

	CATEGORY	UNITS	VALUE
Impact on I Distance	Rail miles in Virginia (Existing routing before project)	Miles	2.46
Project Imp Travel Dis	Rail miles in Virginia (routing after project completion)	Miles	7.01
Pr	Number of years until steady state	Miles	4

	CATEGORY	UNITS	VALUE
sions	Railcars per Train	Railcars/Trains	100
Conversions	Rail tons per Railcar	Tons/Railcar	23.76
	Trucks per Railcar	Trucks/Railcar	4

Other	CATEGORY	UNITS	VALUE
	Change in Daily Delay for Freight Trains	Railcars/Trains	N/A
	Reduction in Number of Rail At-Grade Crossings	Tons/Railcar	N/A

Use Form A-5 to provide demand characteristics for the 15-Year Performance Period.

Attachment A Form A5 – Demand Characteristics for 15-Year Performance Period

Performance Year	Performance Value*
1	
	62,500
2	125,000
3	187,500
4	250,000
5	250,000
6	250,000
7	250,000
8	250,000
9	250,000
10	250,000
14	250,000
12	250,000
13	250,000
14	250,000
15	250,000
Total	3,375,000

^{*} For Freight Service Projects – car loads or containers per year For Inter-City / Amtrak Passenger Projects – passengers per year For Commuter / VRE Passenger Projects – passengers per year



Rail Enhancement Fund Project Application Checklist Attachment B

Date: 01/30/2009

Name of Applicant and Pro Virginia Port Authority Expand Norfolk International		l Rail Yard			
Checklist for Application	on				
1. Project is consistent local plans.	with goals of	applicable a	dopted state,	regional	and/or
_x_Yes	No				
2. Project is an Additive	Investment to V	irginia.			
_x_Yes	No				
3. Project provides for, o	r does not precl	ude, shared o	r dual access	opportunit	ty.
_x_Yes	No				
4. Applicant has provide 30% match.	ed documentation	on and certifi	cation of at 1	least a mir	nimum
_x_Yes	No				
5. Applicant has provide plan, if applicable, and re					
_x_Yes	No				
6. Application is comp copies and an electronic Agreement as provided i	(pdf file) copy	_			
x Yes	No				

PROJECT SCHEDULE

Sample Schedule for Notice to Proceed - Construction

Program: Rail Enhancement Fund

Project: Central Rail Yard, Phase 2

Updated Date: 1/30/2009

	Milestone						2009	6(2	2010					
Scopes	Dates	5	L	M A	4	Σ	7	5	4	S	0	O N		٦ -	Z L	A	Σ	2	7	٨	S	0	z	۵
Contract Award	08/01/09																				-1			
Demolition																								
Site Work																No.								
Concrete Paving							9		14		, (TOTAL PARTY OF					
Trackwork												2		11										
Electrical					121								14,	_									7-4	
Project Completion	10/01/08					- 1						197 12. 1		-										

COST ESTIMATE - PRE-FINAL SUBMITTAL

CENTRAL RAIL YARD PHASE 2

Norfolk International Terminals

SUMMARY MATERIAL LABOR EQUIPMENT GENERAL CONDITIONS, MOB, DEMOB 2.50% 2.23,319 1112,725 47,373 DEMOLITION 8,441 91,4265 521,135 521,135 Earthwork 0 226,647 276,165 276,165 Civil Unitities 0 226,647 276,165 276,173 Fleicifical Earthwork 1,801,014 2,037,604 591,135 Rail (includes Bypass Track Option B) 1,801,014 2,037,604 591,135 TOTAL BASE BID CONTRACT COST 2,180,665 4,621,735 1,981,135 SUBTOTAL 2,636,275 4,714,170 1,981,135 GROSS RECIEPT TAX 3,53% 3,504,201 4,885,294 2,053,050 DESIGN AND CONSTRACT BUDGET REQUIREMENTS	A/E: TranSystems				Date of estimate:	22.Dec.08
S, MOB, DEMOB 2.50% 223,919 112,725 5 8,441 914,265 5 6 70	SUMMARY		MATERIAL Total Cost	LABOR Total Cost	EQUIPMENT Total Cost	TOTAL. Cost
S, MOB, DEMOB 2.50% 223,919 112,725 8,441 914,265 6 8,441 914,265 6 7 7 20,647 7 20,647 7 64,336 1,641,081 7 97,682 2 26,484 126,517 1,801,014 2,037,504 6 1,801,014 2,037,504 6 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,501 1,50						
8,441 914,265 5 0	GENERAL CONDITIONS, MOB, DEMOB	2.50%	223,919	112,725	47,373	384,017
0 226,647 2	DEMOLITION		8,441	914,265	521,915	1,444,621
5,443,326 406,395 2 1,641,081 797,682 2 62,884 126,517 1,801,014 2,037,504 5 1,801,014 2,037,504 5 1,9180,665 4,621,735 1,5 1,92,435 9,364,278 4,714,170 1,5 1,92,435 9,364,278 4,714,170 1,5 1,92,435 9,704,201 4,885,294 2,0 JCTION CONTRACT BUDGET REQUIREMENTS	Earthwork		0	226,647	276,163	502,810
1,641,081 797,682 2 62,884 126,517 1,801,014 2,037,504 5 1	Pavements		5,443,326	406,395	252,173	6,101,894
Frack Option B) 62,884 126,517 5 ITRACT COST 9,180,665 4,621,735 1,5 JUSTIMENT 2% 183,613 92,435 1,5 GUSTIMENT 3.63% 339,923 171,124 1,5 RUCTION CONTINGENCY 5.00% 9,704,201 4,885,294 2,0 JCTION CONTRACT BUDGET REQUIREMENTS	Civil Utilities		1,641,081	797,682	235,222	2,673,985
Track Option B) 1,801,014 2,037,504 5 ITRACT COST 9,180,665 4,621,735 1,5 JUSTIMENT 2% 1,83,613 92,435 1,5 9,364,278 4,714,170 1,5 9,704,201 4,885,294 2,0 IUCTION CONTINGENCY 5,00% 2,0 JCTION CONTRACT BUDGET REQUIREMENTS	Electrical		62,884	126,517	18,308	207,709
1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5 1,5	Rail (Includes Bypass Track Option B)		1,801,014	2,037,504	591,135	4,429,653
USTMENT 2% 9,180,665 4,621,735 1,5						
JUSTIMENT 2% 183,613 92,435 9,364,278 4,714,170 1,5 3.63% 339,923 171,124 PIUCTION CONTINGENCY 5.00% 9,704,201 4,885,294 2,0 JCTION CONTRACT BUDGET REQUIREMENTS 2,00 2,00 2,00 2,00	TOTAL BASE BID CONTRACT COST		9,180,665	4,621,735	1,942,289	15,744,689
9,364,278 4,714,170 1,5 3.63% 339,923 171,124 9,704,201 4,885,294 2,0 JCTION CONTRACT BUDGET REQUIREMENTS	BIDDING CLIMATE ADJUSTMENT	2%	183,613	92,435	38,846	314,894
3.63% 339,923 171,124 9,704,201 4,885,294 2,0 UCTION CONTINGENCY 5.00% JCTION CONTRACT BUDGET REQUIREMENTS	SUBTOTAL		9,364,278	4,714,170	1,981,135	16,059,583
9,704,201 4,885,294 5.00% F BUDGET REQUIREMENTS	GROSS RECIEPT TAX	3.63%	339,923	171,124	71,915	582,963
DESIGN AND CONSTRUCTION CONTINGENCY 5.00% TOTAL CONSTRUCTION CONTRACT BUDGET REQUIREMENTS	TOTAL		9,704,201	4,885,294	2,053,050	16,642,546
TOTAL CONSTRUCTION CONTRACT BUDGET REQUIREMENTS	DESIGN AND CONSTRUCTION CONTINGENCY	5.00%				832,127
	TOTAL CONSTRUCTION CONTRACT	T BUDGET REQUI	REMENTS			17,475,000

30.Jan.09

Print Date:

COST ESTIMATE - PRE-FINAL SUBMITTAL **CENTRAL RAIL YARD PHASE 2**

ΑŒ

22.Dec.08

Date of estimate:

235,435 71,201 26,076 93,440 4,871 11,102 801 21,704 5,340 633 30.Jan.09 TOTAL Cost Print Date: 15.99 20.36 5.63 15.95 4.07 23.36 11.88 Unit Cost 25891 8009 8009 1796 3050 225 5963 1500 175 EQUIPMENT Total Cost EQUIPMENT 6.77 9.16 2.39 5.80 1.25 14.06 4.38 2.50 2.50 75.00 75.00 75.00 75.00 75.00 75.00 Unit Cost 229,255 46,581 135,490 45,310 13,070 37,200 3,075 8,052 576 15,741 3,840 456 504 Total Cost LABOR 9.22 11.20 3.24 10.15 2.04 9.30 7.50 6.60 192.00 114.00 0.93 LABOR Unit Cost **Norfolk International Terminals** MATERIAL Total Cost MATERIAL Unit Cost Ç ではなるよれるよれるのと 24,865 4,159 4,1518 4,464 6,407 4,000 410 Quantity Rem. Crush & stockpile 8" mudslab & 2 " bitum. Rem. Crush & stockpile 6" bituminous Rem, crush & stockpile 8" mudslab Remove building foundations No. Description of Work Item TranSystems DEMOLITION

0.78

3 2,385 20

Remove and Reset Structure Frame and Grate

Remove 2" gas line

Remove Storm Drain Structure

Remove Sanitary Structure Remove Storm Drain Pipe

Remove Sanitary Sewer Remove 12" water line

1,220

Hauling waste material (bldgs, unsat mat'l)20mi

Sawcut Pavement for Removal

9.10 267.00

9.10 267.00 157.75 1.15

Subtotal		4,997	539,150	409,345	953,492
Taxes on Materials and Labor	0.0%	0	0		0
Labor Costs	33.0%	1,649	177,920		179,569
	Subtotal	6,646	717,070	409,345	1,133,061
Overhead and Profit	25%	1,662	179,268	102,336	283,266
	Subtotal	8,308	896,338	511,681	1,416,327
Bond	2%	133	17,927	10,234	28,294
Total 02 41 00 DEMOLITION		8 441	914 265	521 915	1.444.621

22.Dec.08 30.Jan.09

Date of estimate: Print Date:

A/E:	TranSystems									
			MAT	MATERIAL LABOR	LABOR	LABOR	EQUIPMENT	EQUIPMENT	TOTAL	TOTAL
	No. Description of Work Item	Quantity	Quantity Unit Unit Cost	Total Cost Unit Cost	Unit Cost	Total Cost	Total Cost Unit Cost	Total Cost Unit Cost	Unit Cost	Cost
	Earthwork									
-	Cut, Load, and Haul (1 mi) with Scraper	30408	Շ	0	3.30	100,346		176,670		277,016
2	Fine Grade with Motor Grader	55245	S√	0	0.54	29,832	0.51	28,175	1.05	58,007
ო	Compact to 95% D1557 with Sheeps Foot	11993	≿	0	0.29	3,478		11753		15,231
4				0		0		0	0.00	0

Subtotal		0	133,656	216,598	350,254
Taxes on Materials and Labor	0.0%	0	0		0
Labor Costs	33.0%		44,106		44,106
	Subtotal	0	177,762	216,598	394,360
Overhead and Profit	25%	0	44,441	54,150	98,591
	Subtotal	0	222,203	270,748	492,951
Bond	2%	0	4,444	5,415	9,859
Total 31 23 00.00 20 EXCAVATION AND FILI	AND FILL	0	226,647	276,163	502,810

COST ESTIMATE - PRE-FINAL SUBMITTAL
CENTRAL RAIL YARD PHASE 2
Norfolk International Terminals

22.Dec.08 30.Jan.09

Date of estimate: Print Date:

A/F	A/F: TranSystems										
į				MATERIAL	MATERIAL	LABOR	LABOR	EQUIPMENT	EQUIPMENT	TOTAL	TOTAL
_	No. Description of Work Item	Quantity Unit	Unit	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Cost
	Pavements										
	Central Rail Yard										
_	Separation Layer	55245	λS	2.50	138,113	1.50	82,866		34804	4.63	255,785
2	Base Course 12"T VDOT 21A	33561	T _o	23.13	776,266	1.92	64,437		58732	26.80	899,435
က	Roller Compacted Concrete 18"T	55245	λS	42.00	2,320,290	0.87	48,063		02209	43.97	2,429,123
4	Asphalt Surface Course 4"T	12154	Го	81.25	987,513	3.00	36,462	3.13	38042	87.38	1,062,017
5	Cast In Place Section and Panels (60'x310)	1449	S≺	32.50	47,093	5.40	7,825		5434	41.65	60,352

Subtotal		4,269,275	239,655	197,782	4,706,712
Taxes on Materials and Labor	0.0%	0	0		0
Labor Costs	33.0%		79,086		79,086
Subtotal		4,269,275	318,741	197,782	4,785,798
Overhead and Profit	72%	1,067,319	79,685	49,446	1,196,450
Subtotal		5,336,594	398,426	247,228	5,982,248
Bond	2%	106,732	2,969	4,945	119,646
Total 32 10 00 BITUMINOUS CONCRETE PAVEMENT	VEMENT	5,443,326	406,395	252,173	6,101,894

COST ESTIMATE - PRE-FINAL SUBMITTAL
CENTRAL RAIL YARD PHASE 2
Norfolk International Terminals

22.Dec.08 30.Jan.09

Date of estimate: Print Date:

A/E:	TranSystems					<u>.</u>					a ser a com
	24	Attach	<u> </u>	MATERIAL Unit Cost	MATERIAL Total Cost	LABOR Unit Cost	LABOR Total Cost	EQUIPMENT Unit Cost	EQUIPMENT Total Cost	TOTAL Unit Cost	TOTAL
	Rail (Includes Bypass Track Option B)										, a a a a a a a a a a a a a a a a a a a
	Rail					;		;			000
-	136 RE Class I Relay Rail CWR Track complete	9400	¥	00:09	564,000	53.00	498,200	20.00	188000	133.00	1,250,200
2	136 RE New High Strength Alloy and Fully Heat Tre	2000	ㅂ	70.00	140,000	53.00	106,000	20.00	40000	143.00	286,000
ო	No. 8 136 RE Turnout complete	9	ea	21,500.00	129,000	18,900.00	113,400	7,100.00	42600	47,500.00	285,000
4	Remove Existing Track	625		0.00	0	15.00	9,375	3.00	1875	18.00	11,250
c)	Compromise Joint 110-136RE	ω	ea	400.00	3,200	350.00	2,800	130.00	1040	880.00	7,040
9	Bumping Post	9	ea	3,200.00	19,200	2,900.00	17,400	1,060.00	9360	7,160.00	42,960
7	Blue Flag Gate	9	ea	530.00	3,180	190.00	1,140	75.00	450	795.00	4,770
80	CIP Concrete Grade Crossing	432	ഥ	190.00	82,080	160.00	69,120	65.00	28080	415.00	179,280
6	CIP Concrete Grade Crossing End Plates	9	set	270.00	1,620	110.00	099	10.00	06	390.00	2,370
10	Elastomeric Grade Crossing	424	ഥ	120.00	50,880	110.00	46,640	40.00	16960	270.00	114,480
=	Subballast	7800	Z	10.00	78,000	10.00	78,000	3.25	25350	23.25	181,350
12	Track Underdrain	8400	些	15.00	126,000	10.00	84,000	4.50	37800	29.50	247,800
	Bypass Track - Option B										
-	136 RE New High Strength Alloy and Fully Heat Tre	1600	ഥ	70.00	112,000	53.00	84,800	20.00	32000	143.00	228,800
N	No. 8 136 RE Turnout complete	-	ea	21,500.00	21,500	18,900.00	18,900	7,100.00	7100	47,500.00	47,500
က	Remove Existing Track	200	۲	0.00	0	15.00	3,000	3.00	009	18.00	3,600
4	Compromise Joint 110-136RE	ω	өа	400.00	2,400	350.00	2,100	130.00	780	880.00	5,280
S	Elastomeric Grade Crossing	9	ഥ	120.00	12,000	110.00	11,000	40.00	4000	270.00	27,000
9	Subballast	1200	Z	10.00	12,000	10.00	12,000	3.25	3900	23.25	27,900
7	Track Underdrain	1700	"	15.00	25,500	10.00	17,000	4.50	7650	29.50	50,150
œ	Remove Existing Turnout	7	еа	0.00	0	3,000.00	9'000	2,000.00	4000	5,000.00	10,000
6	Site and Utility Improvements	-	<u>ග</u>	30,000.00	30,000	20,000.00	20,000	15,000.00	15000	65,000.00	65,000
	1								OPTION B SUBTOTAL	O AL	465,230
	Total length of rail (TF)	9,400									
	Rail only, Cost per TF	471									
	Project Cost per 1 P	80°1			1 410 EEO		1 201 525		763 635		3 077 730
	Subjoidal	\cdot			006,214,1		CC, 102,1		2000) ()
	l axes on materials and Labor	33.0%			•		396.507				396.507
	Subtotal				1.412.560		1,598,042		463,635]	3,474,237
	Overhead and Profit	25%			353.140		399,511		115,909		868,560
	Subtotal	1			1,765,700		1,997,553		579,544		4,342,797
	Bond	5%			35,314		39,951		11,591		86,856

4,429,653

591,135

2,037,504

1,801,014

A/E:

			.	COST ESTIMAT	COST ESTIMATE - PRE-FINAL SUBMITTAL CENTRAL RAIL YARD PHASE 2	SUBMITTAL PHASE 2			Date of	Date of estimate: Print Date:	22.Dec.08 30.Jan.09	
نِ	omotor Sucar			Norfolk Ir	Norfolk International Terminals	minals						
ان	I alloystalls	- Lawrence von		MATERIAL	MATERIAL	LABOR	LABOR	EQUIPMENT	EQUIPMENT	TOTAL	TOTAL	
z	No. Description of Work Item	Quantity	Chit	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Cost	
	Civil Utilities											
-	Storm Splitter Boxes - AREMA Rated	20	E	8,000.00	160,000	4,000.00	80,000		0	12,000.00	240,000	
8	Storm Pipe 8"D, incl. Trenching class V	215	۳	36.00	7,740	15.00	3,225	8.50	1828	59.50	12,793	
ო	Storm Pipe24"D, incl. Trenching class V	1305	느	41.56	54,236	19.00	24,795	16.80	21924	77.36	100,955	
4	Storm Pipe 36"D, incl. Trenching class V		凸	81.25	0	34.50	0	25.30	0	141.05	0	
Ŋ	Storm Pipe 48"D, incl. Trenching class V	348	4	125.00	43,500	44.75	15,573	42.50	14790	212.25	73,863	
9	Storm Pipe 60"D incl. Trenching class V	1743	۳	325.00	566,475	75.50	131,597	59.30	103360	459.80	801,432	٠
7	Water Pipe 8"D, incl Fittings and Trenching	2445	۲	28.19	68,925	13.74	33,594	6.75	16504	48.68	119,023	1
œ	Fire Hydrants	ဗ	EA	3,375.00	10,125	1,080.00	3,240	0.00	0	4,455.00	13,365	
6	Underdrains - 15"D Perf. Asp Coated Steel	7525	出	16.15	121,529	00.9	45,150	1.25	9406	23.40	176,085	
9	Geofabric	14005	SΥ	1.56	21,848	0:30	4,202		0	1.86	26,050	
Ξ	Sanitary Sewer Pipe - 8"D	1,219	5	46.25	56,379	7.20	8,777	2.50	3048	55.95	68,204	
12	Sanitary Sewer Structures	2	EA	2,187.50	10,938	4,200.00	21,000		0	6,387.50	31,938	
13	Subdrainage Aggregate	3634.12	Z	12.50	45,427	10.80	39,248	3.75	13628	27.05	98,303	
4	Junction Boxes - Airfield Rated	9	E	20,000.00	120,000	10,000.00	000'09		0	30,000.00	180,000	

Subtotal		1,287,122	470,401	184,488	1,942,011
Taxes on Materials and Labor	%0.0	0	0		0
Labor Costs	33.0%		155,232		155,232
	Subtotal	1,287,122	625,633	184,488	2,097,243
Overhead and Profit	25%	321,781	156,408	46,122	524,311
	Subtotal	1,608,903	782,041	230,610	2,621,554
Bond	2%	32,178	15,641	4,612	52,431
Total Civil Utilities		1.641.081	797.682	235,222	2,673,985

COST ESTIMATE - PRE-FINAL SUBMITTAL
CENTRAL RAIL YARD PHASE 2
Norfolk International Terminals

22.Dec.08 30.Jan.09 Date of estimate: Print Date:

A/E:		TranSystems											
					MAT	MATERIAL	MATERIAL	LABOR	LABOR	EQUIPMENT	EQUIPMENT	TOTAL	TOTAL
	2	No. Description of Work Item	Quantity	Chit		Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Total Cost	Unit Cost	Cost
		·											
		Electrical											
-	_	Relocate 100' Steel pole with 8-1000w HPS illuminaires	2	eg		1,200.00	2,400		5,000		10000		17,400
2	<u>ر</u> د	7-1000 HPS Illuminaires & wiring on Salvaged 100' Steel pole	-	ea	_	12,000.00	12,000 \$		13,000	·	1000		26,000
က	m	Paint relocated poles	က	ea		125.00	375	\$ 750.00	2,250	\$ 100.00	300		2,925
4	~*	Concrete Base	ဇ	æ		4,000.00	12,000	\$ 6,000.00	18,000	6	1500		31,500
ა	10	Ground rods	က	ea		25.00	75	\$ 125.00	375		0		450
		#4 ground	150	=		0.67	101	\$ 0.42	63		0		164
9	(C	Connect to existing manholes	8	æ	€9	1,000.00	2,000	\$ 1,500.00	3,000	\$ 500.00	1000	3,000.00	6,000
7	~	Mini zone panel	က	æ		2,300.00	6,900	\$ 900.00	2,700		0		009'6
80	~	Concrete Duct Bank 2-way	300	<u>*-</u>	↔	4.00	1,200	\$ 13.00	3,900	4	93	17.31	5,193
O	•	Concrete Duct Bank 4-way	820	<u>-</u>	€9	4.00	3,400	\$ 13.00	11,050	\$ 0.31	264	17.31	14,714
Ŧ	0	Concrete Duct Bank 6-way	920	<u></u>	69	4.00	2,600	\$ 13.00	8,450	"	202	17.31	11,252
÷	_	# 2 Conductors	3800	<u></u>	69	0.65	2,470	0.70	2,660		0	1.35	5,130
7	12	# 4 conductors	2000	<u></u>	€9	0.45	006	09:0	1,200		0	1.05	2,100
¥	13	# 8 Conductors	1000	=		0.22	220	\$ 0.40	400		0	0.62	620
1,	4	# 4 bare ground	4000	=		0.67	2,680	\$ 0.64	2,560		0	1.31	5,240

Subtotal		49,321	74,608	14,359	138,288
Taxes on Materials and Labor	0.0%	0	0		0
Labor Costs	33.0%		24,621		24,621
	Subtotal	49,321	99,229	14,359	162,909
Overhead and Profit	25%	12,330	24,807	3,590	40,727
	Subtotal	61,651	124,036	17,949	203,636
Bond	2%	1,233	2,481	359	4,073
		62,884	126,517	18,308	207,709